PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q83945

Yuko TACHIBANA, et al.

Appln. No.: 10/510,031

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: October 1, 2004

For:

CABLE, AND CABLE CONNECTION METHOD AND CABLE WELDING DEVICE

THEREFOR

SUBMISSION OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT (IPER)**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Examination Report (IPER). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

Howard L. Bernstein

Registration No. 25,665

SUGHRUE MION, PLLC

Telephone: (202) 293-7060 Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: December 9, 2004

Translation

ENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		C. Notifi	cation of Transmittal of International				
Applicant's or agent's file reference JFKR-55-PCT	FOR FURTHER ACTION	Preliminary	Examination Report (Form PC1/IPEA/416)				
International application No. PCT/JP2003/004232	International filing date (day/month/year) 02 April 2003 (02.04.2003)		Priority date (day/month/year) 04 April 2002 (04.04.2002)				
International Patent Classification (IPC) or H01R 43/02, 4/02, H01B 7/00,	national classification and IPC B23K 11/00						
Applicant	FUJIKURA L	TD.					
and is transmitted to the applicant	according to Article 36.		national Preliminary Examining Authority				
2. This REPORT consists of a total	of 5 sheets, inch	iding this cover	sheet.				
I amended and are the hasis	anied by ANNEXES, i.e., sheet for this report and/or sheets conhe Administrative Instructions	manning rectific	cion, claims and/or drawings which have been cations made before this Authority (see Rule				
These annexes consist of a	total ofsheet	S					
3. This report contains indications r	elating to the following items:		,				
I Basis of the repo	I Basis of the report						
II Priority	II Priority						
III Non-establishme	nt of opinion with regard to no	velty, inventive	step and industrial applicability				
IV \ Lack of unity of							
V Reasoned statem citations and exp	ent under Article 35(2) with replanations supporting such state	gard to novelty, ment	inventive step or industrial applicability;				
VI Certain documer	Certain documents cited						
VII Certain defects i	n the international application						
VIII Certain observations on the international application							
,							
Date of submission of the demand	D	ate of completio	on of this report				
Date of submission of the demand 30 September 2003 (30.09.2003))1 April 2004 (01.04.2004)				
Name and mailing address of the IPEA/JP		uthorized office	r				
Facsimile No.		Telephone No.					

International cation No.

PCT/JP2003/004232

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	of the rep	
. With	regard to	the elements of the international application:*
\boxtimes		national application as originally filed
	the descr	ription:
	pages _	, as originally filed, filed with the demand
	pages _	filed with the letter of
	pages _	, filed with the letter of
	the clain	ns:
	pages _	, as amended (together with any statement under Article 19 filed with the demand
		, as amonded (logsmand), filed with the demand
	pages	, filed with the letter of
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the The	internations in the land the land the land or 55 ith regard eliminary contains furnis furnis furnis in term. The second in the land or 55	It to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing: sined in the international application in written form. stogether with the international application in computer readable form. shed subsequently to this Authority in written form. shed subsequently to this Authority in computer readable form. statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the national application as filed has been furnished. statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.
in	This replacement	the description, pages the claims, Nos the drawings, sheets/fig report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** It sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16). The description, pages the description is given by the description of the description is given by the description of the des



International appraisation No.

PCT/JP03/04232

. Lack of unity of invention				
. In response to the invitation to restrict or pay additional fees the applicant has:				
restricted the claims.				
paid additional fees.				
paid additional fees under protest.				
neither restricted nor paid additional fees.				
This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.				
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is				
complied with.				
not complied with for the following reasons:				
Claims 1-12 relate to a cable connection method, cables and a cable welder, wherein welding extending in the longitudinal direction of the conductor is carried out by means of a pair of electrodes separated from each other in the longitudinal direction. Claims 13-17 relate to a cable comprising a plurality of core wire conductors that are respectively connected to a plurality of contacts. These two groups of inventions are not found to be one invention group so related as to form a				
single general inventive concept.				
 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: 				
all parts.				
the parts relating to claims Nos.				



ation No. International PCT7JP03/04232

V. Reasoned statement under Articl citations and explanations suppo	le 35(2) with reg rting such state	gard to novelty, inventive step or industrial applicability; ement	
1. Statement	_		VEE
Novelty (N)	Claims	1-17	YES
	Claims	·	NO -
Inventive step (IS)	Claims		YES
Titacititae steh (10)	Claims	1-17	NO -
T. A	Claims	1-17	YES
Industrial applicability (IA)	Claims		NO
Document 2: JP, 2-132783, Document 3: JP, 60-50079, 6, 1985 (11.0) Document 4: JP, 9-161936, Document 5: JP, 7-153519 Document 6: JP, 11-35421	, A (Toshiba , B2 (Tanaka)6.85) , A (Yazaki), A (The Wi)5, A (Matsu	s AG.), March 31, 1998 (03.31.98) a Corporation), May 22, 1990 (05.22.90) a Kikinzoku Kogyo K.K., Tanaka Chemical K.K.), No Corporation), June 20, 1997 (06.20.97) itaka Corporation), June 16, 1995 (06.16.95) ashita Electric Works, Ltd.), December 24, 1999 (12.24)	4.99)
1 and 2 cited in the ISR. Do 21) by means of a pair of eld	ectrodes (7 a	d 9 do not appear to involve an inventive step over doc escribes art for welding tabular metal conductors (15, 1 and 9) separated from each other in the longitudinal dir es art for press welding tabular electrodes (4a' and 4b') way, considering formation of region (5), a discolored part of the art	rection) while

being formed as appropriate would be obvious to a person skilled in the art.

The inventions of claims 3, 6, 8 and 10 do not appear to involve an inventive step over document 1 and document 3 cited in the ISR. Document 3 (3rd column, lines 9-12), suggests that Au works as a brazing filler metal to form an alloy layer.

The inventions of claims 11 and 12 do not involve an inventive step over document 1 and document 4 cited in the ISR. The second embodiment described in document 4 relates to a welding device that causes a pair of electrodes (8 and 9) to move and come in contact with a connector.

The inventions of claims 13-17 do not appear to involve an inventive step over documents 5 and 6 cited in the ISR. Document 5 (paragraph [0024]) and document 6 (paragraph [0030]) describe the point that a core wire conductor of a cable and a connector are welded and connected to each other.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

tion No. International

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Л.	Certain	documents	cited
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1. Certain published documents (Rule 70.10)

Application No. Patent No.

Publication date (day/month/year) Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

JP 2003-109708 A

11.04.03

28.09.01

[EX]

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)